

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/763,424  
Source: 1Fwo  
Date Processed by STIC: 12/3/04

***ENTERED***



IFWO

**RAW SEQUENCE LISTING** DATE: 12/03/2004  
 PATENT APPLICATION: US/10/763,424 TIME: 12:11:03

Input Set : A:\034008-061.ST25.txt  
 Output Set: N:\CRF4\12032004\J763424.raw

4 <110> APPLICANT: Karlik, Stephen J.  
 5 Pleiss, Michael A.  
 6 Konradi, Andrei W.  
 7 Grant, Francine S.  
 8 Semko, Christopher M.  
 9 Dressen, Darren B.  
 10 Messersmith, Elizabeth  
 11 Freedman, Stephen  
 12 Yednock, Ted  
 14 <120> TITLE OF INVENTION: Composition for and Treatment of Demyelinating Diseases  
 15 and Paralysis By Administration of Remyelinating Agents  
 17 <130> FILE REFERENCE: 034008-061  
 19 <140> CURRENT APPLICATION NUMBER: US 10/763,424  
 20 <141> CURRENT FILING DATE: 2004-01-26  
 22 <160> NUMBER OF SEQ ID NOS: 71  
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 360  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: Homo sapiens  
 31 <220> FEATURE:  
 32 <221> NAME/KEY: CDS  
 33 <222> LOCATION: (1)...(360)  
 35 <400> SEQUENCE: 1  
 36 gtc aaa ctg cag cag tct ggg gca gag ctt gtg aag cca ggg gcc tca 48  
 37 Val Lys Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala Ser  
 38 1 5 10 15  
 40 gtc aag ttg ttc tgc aca gct tct ggc ttc aac att aaa gac acc tat 96  
 41 Val Lys Leu Phe Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr  
 42 20 25 30  
 44 atg cac tgg gtg aag cag agg cct caa cag ggc ctg gag tgg att gga 144  
 45 Met His Trp Val Lys Gln Arg Pro Gln Gln Gly Leu Glu Trp Ile Gly  
 46 35 40 45  
 48 agg att gat cct gcg agt ggc gat act aaa tat gac ccg aag ttc cag 192  
 49 Arg Ile Asp Pro Ala Ser Gly Asp Thr Lys Tyr Asp Pro Lys Phe Gln  
 50 50 55 60  
 52 gtc aag gcc act att aca gcg gac acg tcc tcc aac aca gcc tgg ctg 240  
 53 Val Lys Ala Thr Ile Thr Ala Asp Thr Ser Ser Asn Thr Ala Trp Leu  
 54 65 70 75 80  
 56 cag ctc agc agc ctg aca tct gag gac act gcc gtc tac tac tgt gca 288  
 57 Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 58 85 90 95  
 60 gac gga atg tgg gta tca acg gga tat gct ctg gac ttc tgg ggc caa 336

Pb

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Input Set : A:\034008-061.ST25.txt  
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61 Asp Gly Met Trp Val Ser Thr Gly Tyr Ala Leu Asp Phe Trp Gly Gln  
62 100 105 110  
64 ggg acc acg gtc acc gtc tcc tca 360  
65 Gly Thr Thr Val Thr Val Ser Ser  
66 115 120  
69 <210> SEQ ID NO: 2  
70 <211> LENGTH: 120  
71 <212> TYPE: PRT  
72 <213> ORGANISM: Homo sapiens  
74 <400> SEQUENCE: 2  
75 Val Lys Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala Ser  
76 1 5 10 15  
77 Val Lys Leu Phe Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr  
78 20 25 30  
79 Met His Trp Val Lys Gln Arg Pro Gln Gln Gly Leu Glu Trp Ile Gly  
80 35 40 45  
81 Arg Ile Asp Pro Ala Ser Gly Asp Thr Lys Tyr Asp Pro Lys Phe Gln  
82 50 55 60  
83 Val Lys Ala Thr Ile Thr Ala Asp Thr Ser Ser Asn Thr Ala Trp Leu  
84 65 70 75 80  
85 Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
86 85 90 95  
87 Asp Gly Met Trp Val Ser Thr Gly Tyr Ala Leu Asp Phe Trp Gly Gln  
88 100 105 110  
89 Gly Thr Thr Val Thr Val Ser Ser  
90 115 120  
93 <210> SEQ ID NO: 3  
94 <211> LENGTH: 318  
95 <212> TYPE: DNA  
96 <213> ORGANISM: Homo sapiens  
98 <220> FEATURE:  
99 <221> NAME/KEY: CDS  
100 <222> LOCATION: (1)...(318)  
102 <400> SEQUENCE: 3  
103 agt att gtg atg acc cag act ccc aaa ttc ctg ctt gtt tca gca gga 48  
104 Ser Ile Val Met Thr Gln Thr Pro Lys Phe Leu Leu Val Ser Ala Gly  
105 1 5 10 15  
107 gac agg gtt acc ata acc tgc aag gcc agt cag agt gtg act aat gat 96  
108 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Thr Asn Asp  
109 20 25 30  
111 gta gct tgg tac caa cag aag cca ggg cag tct cct aaa ctg ctg ata 144  
112 Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Ile  
113 35 40 45  
115 tat tat gca tcc aat cgc tac act gga gtc cct gat cgc ttc act ggc 192  
116 Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly  
117 50 55 60  
119 agt gga tat ggg acg gat ttc act ttc acc atc agc act gtg cag gct 240  
120 Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala  
121 65 70 75 80

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123 gaa gac ctg gca gtt tat ttc tgt cag cag gat tat agc tct ccg tac 288  
124 Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Pro Tyr  
125 85 90 95  
127 acg ttc gga ggg ggg acc aag ctg gag atc 318  
128 Thr Phe Gly Gly Thr Lys Leu Glu Ile  
129 100 105  
132 <210> SEQ ID NO: 4  
133 <211> LENGTH: 106  
134 <212> TYPE: PRT  
135 <213> ORGANISM: Homo sapiens  
137 <400> SEQUENCE: 4  
138 Ser Ile Val Met Thr Gln Thr Pro Lys Phe Leu Leu Val Ser Ala Gly  
139 1 5 10 15  
140 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Thr Asn Asp  
141 20 25 30  
142 Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile  
143 35 40 45  
144 Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly  
145 50 55 60  
146 Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala  
147 65 70 75 80  
148 Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Pro Tyr  
149 85 90 95  
150 Thr Phe Gly Gly Thr Lys Leu Glu Ile  
151 100 105  
154 <210> SEQ ID NO: 5  
155 <211> LENGTH: 429  
156 <212> TYPE: DNA  
157 <213> ORGANISM: Homo sapiens  
159 <220> FEATURE:  
160 <221> NAME/KEY: CDS  
161 <222> LOCATION: (1)...(429)  
163 <400> SEQUENCE: 5  
164 atg gac tgg acc tgg agg gtc ttc tgc ttg ctg gct gta gca cca ggt 48  
165 Met Asp Trp Thr Trp Arg Val Phe Cys Leu Leu Ala Val Ala Pro Gly  
166 1 5 10 15  
168 gcc cac tcc cag gtc caa ctg cag gag tcc ggt gct gaa gtt gtt aaa 96  
169 Ala His Ser Gln Val Gln Leu Gln Glu Ser Gly Ala Glu Val Val Lys  
170 20 25 30  
172 ccg ggt tcc tcc gtt aaa ctg tcc tgc aaa gct tcc ggt ttc aac atc 144  
173 Pro Gly Ser Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Phe Asn Ile  
174 35 40 45  
176 aaa gac acc tac atg cac tgg gtt aaa cag cgt ccg ggt cag ggt ctg 192  
177 Lys Asp Thr Tyr Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu  
178 50 55 60  
180 gaa tgg atc ggt cgt atc gac ccg gct tcc ggt gac acc aaa tac gac 240  
181 Glu Trp Ile Gly Arg Ile Asp Pro Ala Ser Gly Asp Thr Lys Tyr Asp  
182 65 70 75 80  
184 ccg aaa ttc cag gtt aaa gct acc atc acc gct gac gaa tcc acc tcc 288

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Input Set : A:\034008-061.ST25.txt  
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185 Pro Lys Phe Gln Val Lys Ala Thr Ile Thr Ala Asp Glu Ser Thr Ser  
186 85 90 95  
188 acc gct tac ctg gaa ctg tcc ctg cgt tcc gaa gac acc gct gtt 336  
189 Thr Ala Tyr Leu Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val  
190 100 105 110  
192 tac tac tgc gct gac ggt atg tgg gtt tcc acc ggt tac gct ctg gac 384  
193 Tyr Tyr Cys Ala Asp Gly Met Trp Val Ser Thr Gly Tyr Ala Leu Asp  
194 115 120 125  
196 ttc tgg ggt cag ggt acc acg gtc acc gtc tcc tca ggt gag tcc 429  
197 Phe Trp Gly Gln Gly Thr Thr Val Val Ser Ser Gly Glu Ser  
198 130 135 140  
202 <210> SEQ ID NO: 6  
203 <211> LENGTH: 143  
204 <212> TYPE: PRT  
205 <213> ORGANISM: Homo sapiens  
207 <400> SEQUENCE: 6  
208 Met Asp Trp Thr Trp Arg Val Phe Cys Leu Leu Ala Val Ala Pro Gly  
209 1 5 10 15  
210 Ala His Ser Gln Val Gln Leu Gln Glu Ser Gly Ala Glu Val Val Lys  
211 20 25 30  
212 Pro Gly Ser Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Phe Asn Ile  
213 35 40 45  
214 Lys Asp Thr Tyr Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu  
215 50 55 60  
216 Glu Trp Ile Gly Arg Ile Asp Pro Ala Ser Gly Asp Thr Lys Tyr Asp  
217 65 70 75 80  
218 Pro Lys Phe Gln Val Lys Ala Thr Ile Thr Ala Asp Glu Ser Thr Ser  
219 85 90 95  
220 Thr Ala Tyr Leu Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val  
221 100 105 110  
222 Tyr Tyr Cys Ala Asp Gly Met Trp Val Ser Thr Gly Tyr Ala Leu Asp  
223 115 120 125  
224 Phe Trp Gly Gln Gly Thr Thr Val Val Ser Ser Gly Glu Ser  
225 130 135 140  
228 <210> SEQ ID NO: 7  
229 <211> LENGTH: 383  
230 <212> TYPE: DNA  
231 <213> ORGANISM: Homo sapiens  
233 <220> FEATURE:  
234 <221> NAME/KEY: CDS  
235 <222> LOCATION: (1)...(375)  
237 <400> SEQUENCE: 7  
238 atg ggt tgg tcc tgc atc atc ctg ttc gtt gct acc gct acc ggt 48  
239 Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly  
240 1 5 10 15  
242 gtt cac tcc atc gtt atg acc cag tcc ccg gac tcc ctg gct gtt tcc 96  
243 Val His Ser Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser  
244 20 25 30  
246 ctg ggt gaa cgt gtt acc atc aac tgc aaa gct tcc cag tcc gtt acc 144

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Input Set : A:\034008-061.ST25.txt  
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247 Leu Gly Glu Arg Val Thr Ile Asn Cys Ala Ser Gln Ser Val Thr  
 248 35 40 45  
 250 aac gac gtt gct tgg tac cag cag aaa ccg ggt cag tcc ccg aaa ctg 192  
 251 Asn Asp Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu  
 252 50 55 60  
 254 ctg atc tac tac gct tcc aac cgt tac acc ggt gtt ccg gac cgt ttc 240  
 255 Leu Ile Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe  
 256 65 70 75 80  
 258 tcc ggt tcc ggt tac ggt acc gac ttc acc ttc acc atc tcc tcc gtt 288  
 259 Ser Gly Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Val  
 260 85 90 95  
 262 cag gct gaa gac gtt gct tac tac tgc cag cag gac tac tcc tcc 336  
 263 Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln Asp Tyr Ser Ser  
 264 100 105 110  
 266 ccg tac acc ttc ggt ggt acc acc aaa ctg gag atc taa ggatcctc 383  
 267 Pro Tyr Thr Phe Gly Gly Thr Lys Leu Glu Ile \*  
 268 115 120  
 271 <210> SEQ ID NO: 8  
 272 <211> LENGTH: 124  
 273 <212> TYPE: PRT  
 274 <213> ORGANISM: Homo sapiens  
 276 <400> SEQUENCE: 8  
 277 Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly  
 278 1 5 10 15  
 279 Val His Ser Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser  
 280 20 25 30  
 281 Leu Gly Glu Arg Val Thr Ile Asn Cys Lys Ala Ser Gln Ser Val Thr  
 282 35 40 45  
 283 Asn Asp Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu  
 284 50 55 60  
 285 Leu Ile Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe  
 286 65 70 75 80  
 287 Ser Gly Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Val  
 288 85 90 95  
 289 Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln Asp Tyr Ser Ser  
 290 100 105 110  
 291 Pro Tyr Thr Phe Gly Gly Thr Lys Leu Glu Ile  
 292 115 120  
 295 <210> SEQ ID NO: 9  
 296 <211> LENGTH: 429  
 297 <212> TYPE: DNA  
 298 <213> ORGANISM: Homo sapiens  
 300 <220> FEATURE:  
 301 <221> NAME/KEY: CDS  
 302 <222> LOCATION: (1)...(429)  
 304 <400> SEQUENCE: 9  
 305 atg gac tgg acc tgg agg gtc ttc tgc ttg ctg gct gta gca cca ggt 48  
 306 Met Asp Trp Thr Trp Arg Val Phe Cys Leu Leu Ala Val Ala Pro Gly  
 307 1 5 10 15

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/763,424

DATE: 12/03/2004  
TIME: 12:11:04

Input Set : A:\034008-061.ST25.txt  
Output Set: N:\CRF4\12032004\J763424.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:69; Xaa Pos. 32,33  
Seq#:70; Xaa Pos. 106,120  
Seq#:71; Xaa Pos. 115

**VERIFICATION SUMMARY**

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Input Set : A:\034008-061.ST25.txt

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L:1605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:16  
L:1607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:32  
L:1646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:96  
L:1648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:112  
L:1677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:112